

3.1

Solving Systems by Graphing

System of equations--

2 or more equations with
the same variables

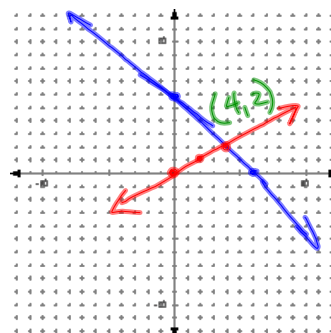
Ex 1:

 $x - 2y = 0$ Solve by graphing

 $x + y = 6$

$$y = -x + 6$$

$$y = \frac{1}{2}x$$



Oct 23-1:06 PM

Oct 23-1:08 PM

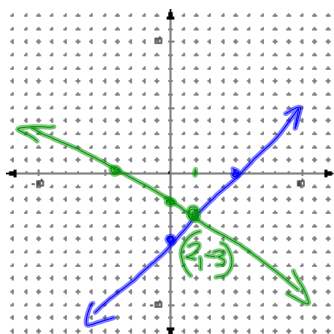
Ex 2:

$x - y = 5$

$x + 2y = -4$

$(0, -5)$
 $(5, 0)$

$(0, -2)$
 $(-4, 0)$



Consistent: at least one sol'n

Inconsistent: No sol'n

Oct 23-1:09 PM

Oct 23-1:10 PM

Dependent: ∞ # of solutions

Independent: exactly one sol'n

Ex 3:

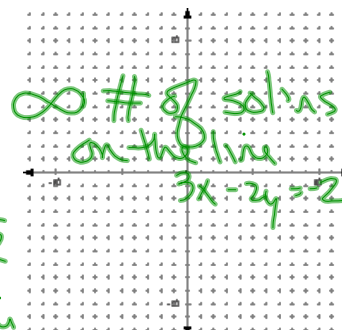
$$9x - 6y = -6$$

$$6x - 4y = -4$$

$$3x - 2y = -2$$

$$3x - 2y = -2$$

Same line
Consistent + dependent



Oct 23-1:10 PM

Oct 23-1:10 PM

Block day--continue to
3.2 notes

p.113 13,15,20,23,25,26,31,35

Oct 23-1:12 PM

Oct 23-1:12 PM